<u>In the claims:</u>

1.   (Currently Amended) A rectangular supramolecule having the following structure:
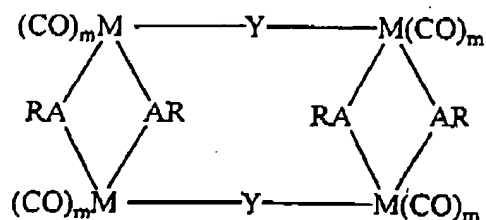
wherein

M is Re, Mn, Cr, Mo, W, Fe, Ru, or Os;

Y is a nitrogen-based didentate ligand;

A is O, S, Se, or Te;

R is $C_3 \sim C_{16}$ alkyl, $(CH_2)_n$-aryl, or $(CH_2)_n$-aryl-$(O-C_1 \sim C_{16}$ alkyl$)_p$, in which n is 0-15, p is 1-3; and

m is ~~1, 2, 3, 4, or 5~~ 1-5.

2.   (Original) The rectangular supramolecule of claim 1, wherein M is Re.

3.   (Original) The rectangular supramolecule of claim 2, wherein m is 3.

4.   (Original) The rectangular supramolecule of claim 1, wherein R is $C_3 \sim C_{16}$ straight chain alkyl.

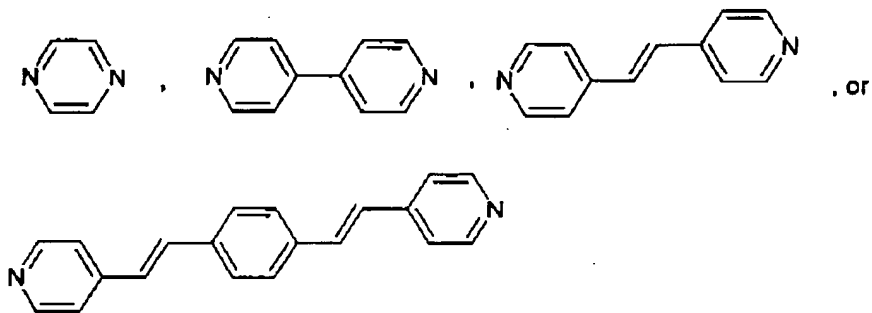5.   (Original) The rectangular supramolecule of claim 1, wherein A is O.

6.   (Original) The rectangular supramolecule of claim 1, wherein Y is diazine or a ligand of the formula:
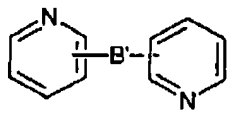
wherein B' is a bond, alkyl, alkenyl, alknyl, cyclyl, heterocyclyl, aryl, or heteroaryl.

7.   (Original) The rectangular supramolecule of claim 6, B' is a bond, alkenyl, alknyl, or aryl.

8.   (Original) The rectangular supramolecule of claim 6, wherein Y is
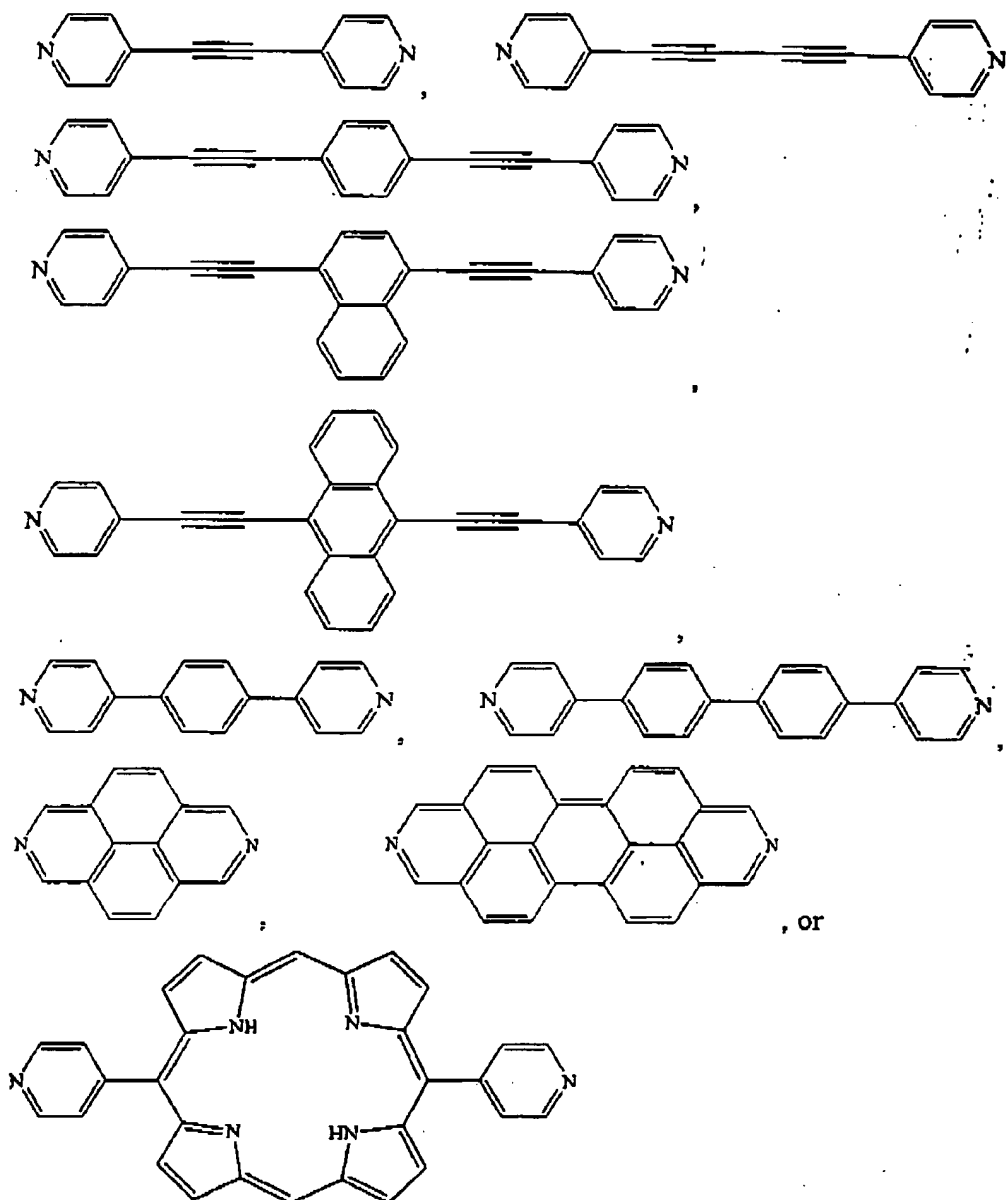

, or

9.   (Original) The rectangular supramolecule of claim 6, wherein M is Re, and m is 3.

10.   (Original) The rectangular supramolecule of claim 6, wherein R is $C_3\sim C_{16}$ straight chain alkyl.

11.   (Original) The rectangular supramolecule of claim 6, wherein A is O.

12.   (Original) The rectangular supramolecule of claim 6, wherein Y is

13.   (Currently Amended) A method for making a rectangular supramolecule having the following structure:

$$(CO)_m M \underline{\qquad} Y \underline{\qquad} M(CO)_m$$
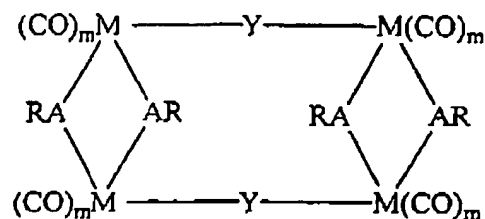
wherein M is Re, Mn, Cr, Mo, W, Fe, Ru, or Os; Y is a nitrogen-based didentate ligand; A is O, S, Se, or Te; R is $C_1\sim C_{16}$ alkyl, $(CH_2)_n$-aryl, or $(CH_2)_n$-aryl-$(O-C_1\sim C_{16}$ alkyl$)_p$, in which n is 0-15, p is 1-3; and m is ~~1, 2, 3, 4, or 5~~ 1-5;

the method comprising:

reacting $M(CO)_{m+2}$ with a nitrogen-based didentate ligand in the presence of an RAH at an elevated temperature to form the rectangular supramolecule.

14.   (Original) The method of claim 13, wherein M is Re and m is 3.

15.   (Original) The method of claim 13, wherein RAH is a $C_1\sim C_{16}$ aliphatic alcohol.

16.   (Original) The method of claim 13, wherein Y is diazine or a ligand of the formula:
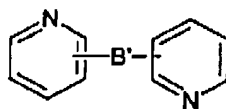
wherein B' is a bond, alkyl, alkenyl, alknyl, cyclyl, heterocyclyl, aryl, or heteroaryl.

Claims 17-21. (Cancelled)